

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
18 December 2003 (18.12.2003)

PCT

(10) International Publication Number  
WO 2003/105352 A3

(51) International Patent Classification<sup>7</sup>: H04J 3/00, 3/12

(21) International Application Number:  
PCT/US2003/017989

(22) International Filing Date: 6 June 2003 (06.06.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/387,303 7 June 2002 (07.06.2002) US  
60/387,098 7 June 2002 (07.06.2002) US  
60/398,860 25 July 2002 (25.07.2002) US  
60/403,874 16 August 2002 (16.08.2002) US

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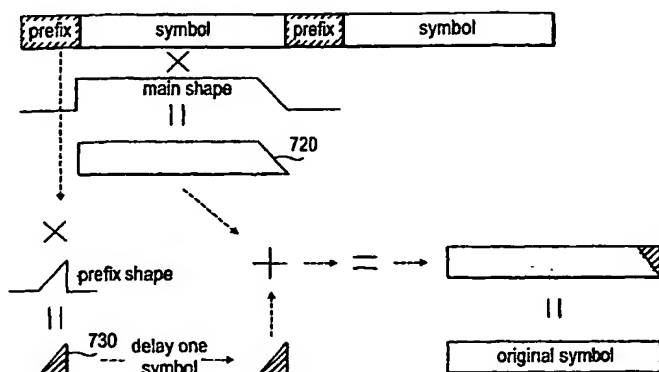
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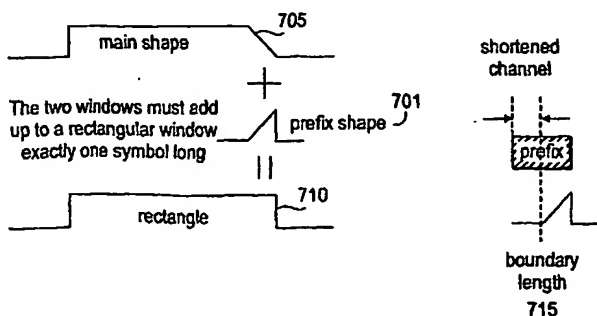
(81) Designated States (national): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,  
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,  
MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD,

[Continued on next page]

(54) Title: A METHOD AND SYSTEM FOR PROVIDING WINDOW SHAPING FOR MULTILINE TRANSMISSION IN A COMMUNICATIONS SYSTEM



(57) Abstract: A method and system for providing window shaping for multiline transmission in a communications system are described. A last portion of a prefix symbol is extracted. A prefix with a prefix window is shaped to create a shaped prefix (701). A DMT symbol is shaped with a DMT window to create a shaped DMT symbol (705). The shaped DMT symbol is combined with the shaped prefix (710).





SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US,  
UZ, VC, VN, YU, ZA, ZM, ZW.

**Published:**

— *with international search report*

(84) **Designated States (regional):** ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(88) **Date of publication of the international search report:**  
8 April 2004

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/17989

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H04J 3/00; 3/12

US CL : 370/210, 525, 526, 527, 529; 375/222, 348

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 370/210, 525, 526, 527, 529; 375/222, 348

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
Please See Continuation Sheet

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y, P	US 6,535,552 B1 (PESSOA) 18 March 22003 (18.03.2003), column 6 line 45 to col. 11 line 29.	1
Y, P	US 2001/0031016 A1 (SEAGRAVES) 18 October 2001 (18.10.2001), column 4 paragraph 0041-0046.	1
A,E	US 6,628,704 B1 (LONG et al) 30 September 2003 (30.09.2003), see entire document.	1

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

## \* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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document member of the same patent family

Date of the actual completion of the international search

15 December 2003 (15.12.2003)

Date of mailing of the international search report

12 JAN 2004

Name and mailing address of the ISA/US

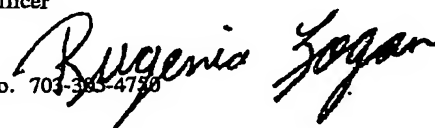
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# INTERNATIONAL SEARCH REPORT

PCT/US03/17989

**Continuation of B. FIELDS SEARCHED Item 3:**

**EAST**

search terms: DMT discrete Multi-tone, prefix symbol, dmt window